

I claim:

1. A rotating centrifuge for decanting lighter material from heavier material from a mixture of initial material, the centrifuge comprising:
 - a housing having a central body and a hollow arm
 - 5 extending from said body, said arm having a first end attached to said central body, and a second end extending away from said central body, and an end cap attached to said second end of said arm to form a chamber in said arm;
 - 10 a baffle attached to said body and extending into said chamber, said baffle having a longer inner tube having an interior and a distal end, and a shorter outer tube, said longer tube positioned inside said shorter tube and defining an inner space therebetween;
 - 15 an outer space defined between said shorter tube and said hollow arm;
 - 20 an entrance path for the mixture of initial material formed in said housing and communicating with said inner space;
 - an exit path for said light material formed in said housing and communicating with said outer space;
 - an exit path for said heavier material formed in said housing and including the interior of said longer tube; and
 - 25 wherein a plug is formed in said chamber adjacent said end cap to engage said distal end of said longer tube and thereby

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define a flow path to guide said lighter material to said exit path for said lighter material.

2. A rotating centrifuge for decanting lighter material from heavier material from a mixture of initial material, the centrifuge comprising:

a housing having a central body;

5 a baffle engaging said body, said baffle having a longer inner tube having an interior and a distal end, and a shorter outer tube, said longer tube positioned inside said shorter tube and defining an inner space therebetween;

10 a hollow arm extending from said central body, said arm having a first end engaging said baffle, and a second end extending away from said central body;

15 an end cap engaging said second end of said arm to form a chamber in said arm, said end cap attached to said central body by a through-bolt extending from said end cap to said central body, and clamping said baffle and said hollow arm between said end cap and said central body;

an outer space defined between said shorter tube and said hollow arm;

20 an entrance path for the mixture of initial material formed in said housing and communicating with said inner space;

an exit path for said light material formed in said housing and communicating with said outer space; and

an exit path for said heavier material formed in said housing and including the interior of said longer tube.



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